

## HL7 Conformance Profile

# Masterfile Departments - MFN M05

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## About this Conformance Profile

Conformance profile MFN M05 - Masterfile Departments inbound

HL7Server5 - Release 2005.2.1

This profile describes the MFN message structure used to import the masterfile of departments from a HIS.

Departments should be uploaded before processing ADT messages.

History:

2006-04-14 - Creation - Nico Vannieuwenhuyze

Remarks:

Segments present in the message structure, but marked as -not supported- are allowed to be present in the message, but are not processed.

The same counts for fields, components, subcomponents marked as not supported.

When messages are received via HL7 MLLP (socket) HL7Server5 processes the message before sending an acknowledgement message.

Please verify length attributes at the lowest level of detail if a field consists of components, subcomponents.

For more information on HL7 conformance profiles please consult HL7 ANSI standard chapter 2 and HL7 Implementation/Conformance Technical Committee documents at <http://www.hl7.org/special/committees/ictc/docs.cfm>

## Conformance parameters

### Message Profile

- HL7 Version: 2.4
- Profile Type: Constraining
- Topics: confsig-AGFA/QUADRAT-2.4-profile-accNE\_accNE-Immediate

### Encoding Method (s)

ER7, XML

## Interaction 1

### Dynamic Definition

- Accept Acknowledgement: NE
- Application Acknowledgement: NE
- Acknowledgement Mode: Immediate

### Static Definition

- Message Type: MFN
- Trigger Event: M05
- Message Structure: MFN\_M05
- Topics: confsig-AGFA/QUADRAT-2.4-static-MFN-M05-null-MFN\_M05-2005.2.1--Receiver

### Message structure

MSH MFI { MFE LOC {[LCH]} {[LRL]} { LDP {[LCH]} {[LCC]} } }

### MSH - Message Header

- Usage: Required
- Cardinality:1..1

| Seq. | Name                  | Type   | Table   | Len. | Opt. | Card. | Contents          |
|------|-----------------------|--------|---------|------|------|-------|-------------------|
| 1    | Field Separator       | ST     |         | 1    | R    | 1..1  | e.g.              |
| 2    | Encoding Characters   | ST     |         | 4    | R    | 1..1  | e.g. ^~\&         |
| 3    | Sending Application   | HD     |         | 227  | R    | 1..1  |                   |
| 3.1  | namespace ID          | IS     |         | 50   | R    | ..    | e.g. HIS          |
| 4    | Sending Facility      | HD     |         | 227  | O    | 0..1  |                   |
| 4.1  | namespace ID          | IS     |         | 50   | O    | ..    | e.g. FACILITY1    |
| 5    | Receiving Application | HD     | HL70361 | 227  | O    | 0..1  |                   |
| 5.1  | namespace ID          | IS     |         | 64   | O    | ..    | e.g. AGFA         |
| 6    | Receiving Facility    | HD     | HL70362 | 227  | O    | 0..1  |                   |
| 6.1  | namespace ID          | IS     |         | 50   | O    | ..    | e.g. FACILITY1    |
| 7    | Date/Time Of Message  | TS     |         | 26   | R    | 1..1  |                   |
| 7.1  | Date/Time             | NM     |         | 24   | R    | ..    | e.g. 200511070945 |
| 9    | Message Type          | CM_MSG | HL70076 | 15   | R    | 1..1  |                   |
| 9.1  | message type          | ID     | HL70076 | 3    | R    | ..    | e.g. MFN          |
| 9.2  | trigger event         | ID     | HL70003 | 3    | R    | ..    | e.g. M05          |
| 9.3  | message structure     | ID     | HL70354 | 7    | O    | ..    | e.g. MFN_M05      |
| 10   | Message Control ID    | ST     |         | 20   | R    | 1..1  | e.g. 00000001     |
| 11   | Processing ID         | PT     |         | 3    | R    | 1..1  |                   |
| 11.1 | processing ID         | ID     | HL70103 | 3    | R    | ..    | e.g. P            |
| 12   | Version ID            | VID    | HL70104 | 973  | R    | 1..1  |                   |
| 12.1 | version ID            | ID     | HL70104 | 60   | R    | ..    | e.g. 2 . 4        |
| 18   | Character Set         | ID     | HL70211 | 16   | O    | 0..*  | e.g. 8859/1       |

### 1. Field Separator

This field contains the separator between the segment ID and the first real field, MSH-2- encoding characters. As such it serves as the separator and defines the character to be used as a separator for the rest of the message. Recommended value and used by Agfa is |, (ASCII 124).

## 2. Encoding Characters

This field contains the four characters in the following order: the component separator, repetition separator, escape character, and subcomponent separator. Recommended values and used by Agfa Healthcare are ^~\&, (ASCII 94, 126, 92, and 38).

## 3. Sending Application

This field uniquely identifies the sending application among all other applications within the network enterprise. The network enterprise consists of all those applications that participate in the exchange of HL7 messages within the enterprise. Entirely site-defined and a parameter for Agfa.

## 7. Date/Time Of Message

This field contains the date/time that the sending system created the message. If the time zone is specified, it is expected to be the local time zone !

## 9. Message Type

Should be MFN^M05^MFN\_M05

### 9.3. message structure

Only used when input is hl7 v2.xml

## 10. Message Control ID

This field contains a number or other identifier that uniquely identifies the message. The receiving system echoes this ID back to the sending system in the Message acknowledgment segment (MSA).

### 11.1. processing ID

No difference in processing by HL7SERVER5 if Production or Test

### 12.1. version ID

Versions supported by HL7SERVER5 are 2.2, 2.3, 2.3.1, 2.4

## 18. Character Set

Character set has to be a subset of the Windows ANSI codepage of the pc where HL7SERVER5 is running ! e.g. ISO 8859/1 on a windows 1252 code page UTF-8 is not supported !

## MFN - Master File Identification

- Usage: Required

- Cardinality:1..1

| Seq. | Name                               | Type | Table   | Len. | Opt. | Card. | Contents     |
|------|------------------------------------|------|---------|------|------|-------|--------------|
| 1    | Master File Identifier             | CE   | HL70175 | 483  | R    | 1..1  |              |
| 1.1  | identifier                         | ST   |         | 20   | R    | ..    | e.g. LOC     |
| 2    | Master File Application Identifier | HD   |         | 227  | O    | 0..1  |              |
| 2.1  | namespace ID                       | IS   | HL70363 | 30   | O    | ..    | e.g. HIS_MFN |
| 3    | File-Level Event Code              | ID   | HL70178 | 3    | R    | 1..1  | e.g. UPD     |
| 6    | Response Level Code                | ID   | HL70179 | 3    | R    | 1..1  | e.g. NE      |

### 1.1. identifier

Should be LOC for a departments masterfile

### 3. File-Level Event Code

Only "UPD" supported for the moment! UPD - Change file records as defined in the record-level event codes for each record that follows Below File-Level Event codes are NOT supported (only for informational purposes). REP - Replace current version of this master file with the version contained in this message If the file-level event code is "REP" (replace file), then each MFE segment must have a record-level event code of "MAD" (add record to master file).

## 6. Response Level Code

Required for HL7, but not used by HL7Server5.

## Segment group: MF LOCATION

- Usage: Required
- Cardinality:1..\*

## MFE - Master File Entry

- Usage: Required
- Cardinality:1..1

| Seq. | Name                    | Type   | Table   | Len. | Opt. | Card. | Contents          |
|------|-------------------------|--------|---------|------|------|-------|-------------------|
| 1    | Record-Level Event Code | ID     | HL70180 | 3    | R    | 1..1  | e.g. MAD          |
| 3    | Effective Date/Time     | TS     |         | 26   | O    | 0..1  |                   |
| 3.1  | Date/Time               | NM     |         | 14   | O    | ..    | e.g. 200511070945 |
| 4    | Primary Key Value - MFE | VARIES |         | 15   | R    | 1..1  | e.g. SJHMID       |
| 5    | Primary Key Value Type  | ID     | HL70355 | 3    | R    | 1..1  |                   |

### 1. Record-Level Event Code

Determines processing for the record: insert, update, delete or deactivate Supported codes: MAC: reactivate MAD: add MDC: deactivate MDL: delete MUP: update

### 3. Effective Date/Time

Used for deactivate, delete, reactivate events.

### 4. Primary Key Value - MFE

Should match LOC-1

### 5. Primary Key Value Type

Required for HL7, but not used by HL7Server5.

## LOC - Location Identification

- Usage: Required
- Cardinality:1..1

| Seq.  | Name                    | Type | Table   | Len. | Opt. | Card. | Contents                      |
|-------|-------------------------|------|---------|------|------|-------|-------------------------------|
| 1     | Primary Key Value - LOC | PL   |         | 1230 | R    | 1..1  |                               |
| 1.1   | point of care           | IS   |         | 15   | R    | ..    | e.g. SJHMID                   |
| 1.4   | facility (HD)           | HD   |         | 31   | O    | ..    |                               |
| 1.4.2 | universal ID            | ST   |         | 3    | O    | ..    | e.g. SJH                      |
| 1.9   | Location description    | ST   |         | 30   | O    | ..    | e.g. SJH Medical Imaging Dept |
| 2     | Location Description    | ST   |         | 100  | O    | 0..1  | e.g. SJH Medical Imaging Dept |
| 3     | Location Type - LOC     | IS   | HL70260 | 1    | R    | 1..1  | e.g. D                        |
| 4     | Organization Name - LOC | XON  |         | 567  | O    | 0..*  |                               |
| 4.3   | ID number (NM)          | NM   |         | 10   | O    | ..    | e.g. SJH                      |
| 7     | License Number          | CE   |         | 483  | O    | 0..2  |                               |
| 7.1   | identifier              | ST   |         | 100  | O    | ..    |                               |
| 7.2   | text                    | ST   |         | 100  | O    | ..    |                               |
| 7.3   | name of coding system   | IS   | HL70396 | 20   | O    | ..    |                               |

### 1.1. point of care

Department ID

### 1.4.2. universal ID

Facility identifier

### 1.9. Location description

Department Name

### 2. Location Description

Department Name - only used when the department name is not specified in LOC-1

### 3. Location Type - LOC

Location type should be D or N for a department.

### 4. Organization Name - LOC

Facility - only used when not specified in LOC-1-4

### 4.3. ID number (NM)

Facility ID

### 7. License Number

Identifiers specified in this (repeating) field can be mapped to a RIS db field using parameters. Supported db fields are hiscode, license, freefield1, freefield2, freefield3

### 7.2. text

Only used when LOC-7-1 is empty - storage is equal to storage of LOC-7-1

### 7.3. name of coding system

Coding system is used to determine in which db field to store the identifier

## LCH - Location Characteristic

- Usage: Required but may be empty

- Cardinality:0..\*

- Implementation note: Used to set department responsibilities (also known as FUS in Impax RIS).

Examples: CAN\_REQUEST, CAN\_EXECUTE

| Seq. | Name                              | Type | Table   | Len. | Opt. | Card. | Contents         |
|------|-----------------------------------|------|---------|------|------|-------|------------------|
| 1    | Primary Key Value - LCH           | PL   |         | 1230 | R    | 1..1  |                  |
| 1.1  | point of care                     | IS   |         | 15   | R    | ..    | e.g. SJHMID      |
| 2    | Segment Action Code               | ID   | HL70206 | 3    | O    | 0..1  | e.g. A           |
| 3    | Segment Unique Key                | EI   |         | 427  | R    | 1..1  |                  |
| 3.1  | entity identifier                 | ST   |         | 3    | R    | ..    | e.g. 1           |
| 4    | Location Characteristic ID        | CE   | HL70324 | 483  | R    | 1..1  |                  |
| 4.1  | identifier                        | ST   |         | 3    | R    | ..    | e.g. FUS         |
| 5    | Location Characteristic Value-LCH | CE   | HL70136 | 483  | R    | 1..1  |                  |
| 5.1  | identifier                        | ST   |         | 20   | R    | ..    | e.g. CAN_REQUEST |

### 3. Segment Unique Key

Unique ID per LCH segment - e.g. sequence number

### 4.1. identifier

Only characteristic FUS supported

### 5.1. identifier

Should be a value from CONSTANTS table of type FUS (e.g. CAN\_REQUEST)

## LRL - Location Relationship

- Usage: Required but may be empty
- Cardinality:0..\*
- Implementation note: Used to link to a "parent" department. Requires that the "parent" department already exists.

| Seq. | Name                                | Type | Table   | Len. | Opt. | Card. | Contents    |
|------|-------------------------------------|------|---------|------|------|-------|-------------|
| 1    | Primary Key Value - LRL             | PL   |         | 1230 | R    | 1..1  |             |
| 1.1  | point of care                       | IS   |         | 15   | R    | ..    | e.g. SJHMID |
| 4    | Location Relationship ID            | CE   | HL70325 | 483  | R    | 1..1  |             |
| 4.1  | identifier                          | ST   |         | 3    | R    | ..    | e.g. PAR    |
| 6    | Patient Location Relationship Value | PL   |         | 1230 | R    | 1..1  |             |
| 6.1  | point of care                       | IS   |         | 15   | R    | ..    | e.g. SJH    |
| 6.9  | Location description                | ST   |         | 3    | O    | ..    |             |

### 4.1. identifier

Only PAR supported !

### 6.9. Location description

Not stored in database - only used in logging

## Segment group: MF LOC DEPT

- Usage: Required
- Cardinality:1..\*

## LDP - Location Department

- Usage: Required
- Cardinality:1..1

| Seq. | Name                    | Type | Table   | Len. | Opt. | Card. | Contents      |
|------|-------------------------|------|---------|------|------|-------|---------------|
| 1    | Primary Key Value - LDP | PL   |         | 1230 | R    | 1..1  |               |
| 1.1  | point of care           | IS   |         | 15   | R    | ..    | e.g. SJHMID   |
| 2    | Location Department     | CE   | HL70264 | 483  | R    | 1..1  |               |
| 2.1  | identifier              | ST   |         | 15   | R    | ..    | e.g. SJHMID   |
| 7    | Activation Date LDP     | TS   |         | 26   | O    | 0..1  |               |
| 7.1  | Date/Time               | NM   |         | 24   | O    | ..    | e.g. 20040328 |
| 8    | Inactivation Date - LDP | TS   |         | 26   | O    | 0..1  |               |
| 8.1  | Date/Time               | NM   |         | 24   | O    | ..    | e.g. 20040328 |

### 7.1. Date/Time

YYYYMMDDHHMMSS services.s\_datevalid

### 8.1. Date/Time

YYYYMMDDHHMMSS services.s\_dateinvalid

## LCH - Location Characteristic

- Usage: Not supported

## LCC - Location Charge Code

- Usage: Not supported

*End of segment group MF\_LOC\_DEPT*

*End of segment group MF\_LOCATION*